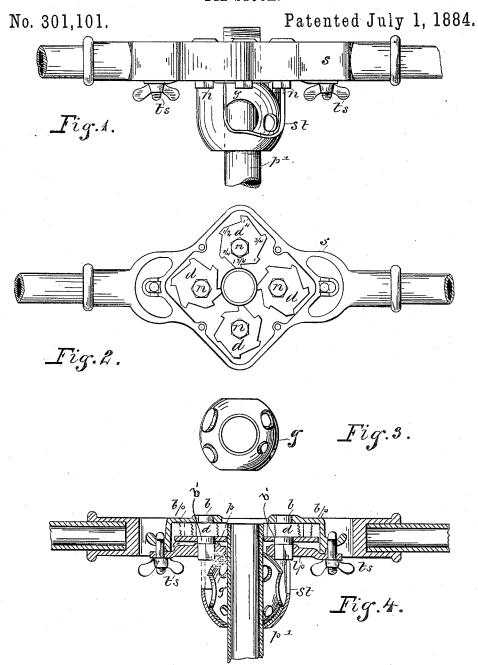
J. M. DODGE.

DIE STOCK.



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INTENTOR.

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UNITED STATES PATENT OFFICE.

JAMES M. DODGE, OF INDIANAPOLIS, INDIANA.

DIE-STOCK.

SPECIFICATION forming part of Letters Patent No. 301,101, dated July 1, 1884.

Application filed November 22, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. DODGE, a resident of Indianapolis, Marion county, Indiana, have made certain new and useful Im-5 provements in Die-Stocks, a description of which is set forth in the following specification, reference being made to the accompanying drawings, in the several figures of which like letters indicate like parts.

My invention belongs to that class of devices which are used for cutting threads upon iron pipe, and is designed to furnish in one machine all parts sufficient for cutting threads on pipes of different sizes, and providing for 15 changes without requiring separate pieces to

be carried about by the workman.

In the drawings, Figure 1 represents a side view of my device; Fig. 2, a plan view of the interior of the stock and dies only. Fig. 3 is 20 a side view of the guide. Fig. 4 is a vertical section of the device with a pipe in the

In detail, s is the stock, in which are dies d, having a number of projecting or cutting edges 25 of different lengths. These dies have journals formed on the lower ends, which are supported in bearings b or the round openings formed in the bottom plate, bp, of the stock, and bearings b' or round openings formed in 30 the inner plate, p, which is supported on lugs formed in the four corners or sides of the stock s. Above the bearings b' the die stem or axis extends upward, and has knobs or projections n formed on its top, these knobs be-35 ing regular prisms having sides corresponding in number to the cutting-edges of the dies, and adapted to fit into openings of corresponding shape and size in the lock-plate lp, which fits down into the top of the stock, and 40 is held in place by thumb-screws ts at each end. The pipe p' passes freely through openings in the lock-plate lp and inner plate, p, to the dies d. On top of the lock-plate lp is a cupshaped socket, into which is fitted loosely the 45 guide g, which is hollow, having as many sides as there are cutting-edges to the dies, and openings of corresponding size on each of two op-

posite sides, and these openings are graduated to fit different sizes of pipe. Thus in the one 50 shown in the drawings there are seven sets of opposite sides, and seven sizes of openings adapted for different sizes of pipe. This guide

may be made in a variety of shapes, the socket being made to correspond with it. Thus a cube may be used, and this could be used for 55 three sizes of openings to admit three sizes of pipes. The strap st is passed over the guide and screwed fast simply to hold the guide g in place. By raising the strap the guide g may be readily turned around, so that either open- 60 ing may be placed in line with the opening in the lock-plate, through which the pipe

The dies d may be readily adjusted by removing the lock-plate and turning them 65 around, by hand or other means, in their bearings, so that any one of the cutting edges may be brought to the front and against the line of the pipe's direction. Of course, whatever number of dies be used-two, three, or fourthey must all present the corresponding cutters at the same time. For convenience, these may be stamped with figures corresponding to each other on the top of each of the projections. After the dies are properly arranged 75 the lock-plate is replaced, screwed fast, the guide g set in its socket, the strap fastened over it, the pipe end inserted in the proper opening in the guide, and fed onward to the dies, and the stock revolved by its handles. 80 My device thus always has in itself the parts needful for threading pipes of several different sizes, and is cheap and efficient.
What I claim, and desire to secure by Let-

ters Patent, is the following:

1. The stock s, the dies d, inner plate, p. lock-plate lp, base-plate bp, and knobs n, all combined substantially as and for the purpose described.

2. The stock s, dies d, having knobs n, in 90 ner plate, p, base-plate bp, lock-plate lp, and movable guide g, all combined substantially as and for the purpose described.

3. The multiple-faced movable guide g, in combination with a die-stock and means for 95 securing the guide in place in the stock, substantially as described.

In witness whereof I have hereunto set my hand this 14th day of November, 1883.

JAMES M. DODGE.

Witnesses:

C. P. JACOBS. N. W. OTT.